09 (313048)

```
10 11 12 13 14
ring nodes:
    1 2 3 4 5 6 7 8 9
chain bonds:
    1-12 2-11 3-13 4-10
ring bonds:
    1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds:
    1-2 1-6 1-12 2-3 2-11 3-4 3-13 4-5 4-10 5-6 5-7 6-9 7-8 8-9
```

chain nodes :

Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS

FILE 'REGISTRY' ENTERED AT 10:25:07 ON 21 SEP 1999 L1STRUCTURE UPLOADED L2 1 S L1 FILE 'REGISTRY' ENTERED AT 10:40:51 ON 21 SEP 1999 L3 -STRUCTURE UPLOADED L41 S L3 L5 27 S L3 FULL SSS FILE 'CAPLUS' ENTERED AT 10:41:48 ON 21 SEP 1999 => s 15 L6 11 L5 => d l6 ibib abs hitstr 1-YOU HAVE REQUESTED DATA FROM 11 ANSWERS - CONTINUE? Y/(N):y ANSWER 1 OF 11 CAPLUS COPYRIGHT 1999 ACS ACCESSION NUMBER: 1994:456825 CAPLUS DOCUMENT NUMBER: 121:56825 TITLE: Iminoethenethiones, RN:C:C:S: Characterization by Neutralization-Reionization Mass Spectrometry and G2(MP2) Theory AUTHOR (S): Flammang, Robert; Landu, Dinzeyi; Laurent, Sophie; Barbieux-Flammang, Monique; Kappe, C. Oliver; Wong, Ming Wah; Wentrup, Curt Department of Organic Chemistry, University CORPORATE SOURCE: MonsHainaut, Mons, B-7000, Belg. 201 J. Am. Chem. Soc. (1994), 116(5), 2005-13 SOURCE: CODEN: JACSAT; ISSN: 0002-7863 DOCUMENT TYPE: Journal LANGUAGE: English (Methylimino) ethenethione (2) and iminoethenethione (4) are stable mols. on the microsecond time scale of neutralization-reionization mass spectrometry expts. The corresponding radical cations were generated by fragmentation of thiazolopyrimidinedione mol. ions. Iminoethenethione (4)does not tautomerize to thioformyl cyanide (HCSCN) under the wall-less conditions of the MS expt., but it does so under FVP conditions when generated from isoxazolones. Thioformyl cyanide was unequivocally identified by IR and mass spectra. The structures and stabilities of 2, 4, and 4.bul.+ were investigated by ab initio calcns. at the G2(MP2) level of theory. Both 2 and 4 are predicted to have a singlet ground state, in contrast to O:C:C:S, for which a triplet state is preferred. The singlet-triplet gaps are approx. 40 kJ mol-1. In agreement with exptl. findings, both iminoethenethiones are calcd. to be thermodynamically and kinetically stable species, lying in energy wells with at least a 100 kJ mol-1 barrier to dissocn. into HNC (or CH3NC) + CS. The IR and UV spectra and ionization energies of 2 and 4 are predicted. The iminoethenethione radical cation (4.bul.+) is found to be the global min. on the

C2HNS.bul.+

potential energy surface and stable toward all possible fragmentations: the most favorable fragmentations into H.bul. + NCCS+ and HNC + CS.bul.+ are in accord with the mass spectrometric observations.

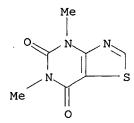
IT 1781-18-6

RL: RCT (Reactant)

(characterization of iminoethenethiones by neutralization-reionization mass spectrometry of heterocycles)

RN 1781-18-6 CAPLUS

CN Thiazolo[4,5-d] pyrimidine-5,7(4H,6H)-dione, 4,6-dimethyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



ANSWER 2 OF 11 CAPLUS COPYRIGHT 1999 ACS 1.6

1988:179589 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 108:179589

TITLE: Non-xanthine heterocycles: activity as antagonists

of

SOURCE:

A1- and A2-adenosine receptors

Daly, John W.; Hong, Oksoon; Padgett, William L.; AUTHOR(S):

> Shamim, Mah T.; Jacobson, Kenneth A.; Ukena, Dieter Lab. Chem. Bioorg. Chem., Natl. Inst. Diabetes, Dig.

CORPORATE SOURCE: Kidney Dis., Bethesda, MD, 20892, USA

Biochem. Pharmacol. (1988), 37(4), 655-64

CODEN: BCPCA6; ISSN: 0006-2952

DOCUMENT TYPE: Journal

LANGUAGE: English

A variety of nonxanthine heterocycles were antagonists of binding of [3H] phenylisopropyladenosine to rat brain A1-adenosine receptors and of activation of adenylate cyclase via interaction of Nethylcarboxamidoadenosine with A2-adenosine receptors in human platelet

and rat pheochromocytoma cell membranes. The pyrazolopyridines

tracazolate, cartazolate, and etazolate were several fold more potent

than

theophylline at both A1- and A2-adenosine receptors. The pyrazolopyridines, however, were still many fold less potent than 8-phenyltheophylline and other 8-phenyl-1,3-dialkylxanthines. A structurally related N6-substituted 9-methyladenine was also a potent adenosine antagonist with selectivity for A1 receptors. None of several aryl-substituted heterocycles, including a thiazolopyrimidine, imidazopyridines, benzimidazoles, a pyrazoloquinoline, a mesoionic xanthine analog, and a triazolopyridazine exhibited the high potency typical of 8-phenyl-1,3-dialkylxanthines. A furyl-substituted triazoloquinazoline was very potent at both A1 and A2 receptors. pteridin-2,4-dione, 1,3-dipropyllumazine, was somewhat less potent than theophylline at A1- and A2-adenosine receptors, whereas 1,3-dimethyllumazine was much less potent. A benzopteridin-2,4-dione, alloxazine, was somewhat more potent than theophylline. Other

heterocycles with antagonist activity were the dibenzazepine

carbamazepine

and .beta.-carboline-3-Et carboxylate. The phenylimidazoline clonidine had no activity, whereas a related dihydroxyphenylimidazoline was a weak noncompetitive adenosine antagonist.

IT 21544-68-3P

> RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and as adenosine receptor antagonist, structure in relation

to)

21544-68-3 CAPLUS RN Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 4,6-dimethyl-2-phenyl- (8CI, ÇN (CA INDEX NAME)

ANSWER 3 OF 11 CAPLUS COPYRIGHT 1999 ACS Ь6

1985:615258 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 103:215258

TITLE: Reaction of 6-arylidenehydrazino-1, 3-dimethyluracils

> with thionyl chloride leading to purine, thiazolo[4,5-d]pyrimidine, pyrimido[4,5-

e][1,3,4]thiadiazine, pyrazolo[3,4-d]pyrimidine, and

[1,2,3]thiadiazolo[4,5-d]pyrimidine derivatives

AUTHOR(S): Ichiba, Misuzu; Senga, Keitaro

CORPORATE SOURCE: Sch. Med., Keio Univ., Tokyo, 160, Japan SOURCE:

J. Heterocycl. Chem. (1985), 22(2), 381-4

CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE: Journal English LANGUAGE:

CASREACT 103:215258 OTHER SOURCE(S):

GΙ

The reaction of 6-arylidenehydrazino-1,3-dimethyluracils I (R = H, Br, AΒ Cl,

Me, OMe) with SOCl2 in C6H6 afforded purine, thiazolo[4,5-d]pyrimidine, pyrimido[4,5-e][1,3,4]thiadiazine, pyrazolo[3,4-d]pyrimidine, and [1,2,3]thiadiazolo[4,5-d]pyrimidine derivs. The treatment of 6-(benzylidene-1'-methylhydrazino)-1,3-dimethyluracil with SOC12 in C6H6 gave 4-methylpyrimido[4,5-d][1,3,4]thiadiazine and 1-methylpyrazolo[3,4d]pyrimidine derivs. Plausible mechanisms for the formation of these fused pyrimidines are discussed.

IT 21544-68-3P 99261-90-2P 99261-91-3P

99261-92-4P 99261-93-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of)

RN 21544-68-3 CAPLUS

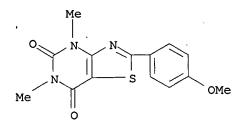
Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 4,6-dimethyl-2-phenyl- (8CI, CN (CA INDEX NAME)

RN 99261-90-2 CAPLUS CN Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 2-(4-bromophenyl)-4,6-dimethyl-(9CI) (CA INDEX NAME)

RN 99261-91-3 CAPLUS
CN Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 2-(4-chlorophenyl)-4,6-dimethyl- (9CI) (CA INDEX NAME)

RN 99261-92-4 CAPLUS
CN Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 4,6-dimethyl-2-(4-methylphenyl)- (9CI) (CA INDEX NAME)

RN 99261-93-5 CAPLUS
CN Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 2-(4-methoxyphenyl)-4,6-dimethyl- (9CI) (CA INDEX NAME)



L6 ANSWER 4 OF 11 CAPLUS COPYRIGHT 1999 ACS

ACCESSION NUMBER: 1985:6061 CAPLUS

DOCUMENT NUMBER: 102:6061

TITLE: Antagonists for adenosine receptors

INVENTOR(S): Snyder, S. H.; Daly, J. W.; Bruns, R. F.

PATENT ASSIGNEE(S): John Hopkins University, USA

SOURCE: Belg., 39 pp. CODEN: BEXXAL

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	AP	PLICATION NO.	DATE
1	BE 898946	A1	19840618	BE	1984-212418	19840217
1	US 4593095	Α	19860603	US	1983-467894	19830218
	SE 8400788	Α	19840819	SE	1984-788	19840214
:	SE 456680	В	19881024			
:	SE 456680	С	19890216			
	FR 2541281	A1	19840824	FR	1984-2472	19840217
	FR 2541281	B1	19880129			
(	GB 2135311	A1	19840830	GB	1984-4243	19840217
(	GB 2135311	B2	19861105			
1	NL 8400514	Α	19840917	NL	1984-514	19840217
]	DE 3406275	A1	19840927	DE	1984-3406275	19840217
(	CA 1234804	A1	19880405	CA	1984-447705	19840217
	JP 59205377	A2	19841120	JP	1984-28010	19840218
1	US 4769377	Α	19880906	US	1986-825594	19860203
PRIOR	ITY APPLN. INFO.	:		US	1983-467894	19830218
GT						

$$RN$$
 $R^2$ 
 $R^3$ 
 $R^4$ 
 $R^5$ 
 $R^5$ 
 $R^5$ 
 $R^5$ 
 $R^6$ 
 $R^6$ 
 $R^6$ 
 $R^6$ 
 $R^6$ 
 $R^6$ 
 $R^7$ 
 $R^7$ 

AB Xanthine derivs. I [X = NH, O, S; R = allyl, (un)substituted alkyl, cycloalkyl; R1 = H, allyl, (un)substituted alkyl, cycloalkyl; R2 = NH2, OH; R3, R5 = H, halogen, alkyl, alkoxy, OH, NO2, NH2; R4 = halogen, (un)substituted alkyl, Ph, amino, cycloalkyl, OH, CO2H, alkoxy, cycloalkoxy] were prepd. Thus 4,2-Cl(O2N)C6H3CO2H were treated with 1,3-dipropyl-5-nitroso-6-aminouracil and the resulting dimine II reduced with (NH4)2S to give I (X = NH, R = R1 = Pr; R2 = NH2, R3 = R5 = H, R4 = Cl, III). III had a cyclohexyladenosine antagonist ED50 of 0.05 nM in

vitro. Cyclohexyladenosine antagonist data are give for >90 I and structure-activity relationships are discussed.

ΙT 3758-26-7

RL: RCT (Reactant)

(adenosine antagonist activity of)

3758-26-7 CAPLUS RN

Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 6-ethyl-4-propyl- (7CI, 8CI, CN (CA INDEX NAME)

ANSWER 5 OF 11 CAPLUS COPYRIGHT 1999 ACS 1.6

ACCESSION NUMBER:

1981:435269 CAPLUS

DOCUMENT NUMBER:

95:35269

TITLE:

Adenosine antagonism by purines, pteridines, and

benzopteridines in human fibroblasts

AUTHOR(S):

Bruns, Robert F.

CORPORATE SOURCE:

Dep. Neurosci., Univ. California, La Jolla, CA,

92093,

USA

SOURCE:

Biochem. Pharmacol. (1981), 30(4), 325-33

CODEN: BCPCA6; ISSN: 0006-2952

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Testing of >100 purine bases and structurally related heterocycles as adenosine (I) [58-61-7] antagonists in VA13 fibroblasts (detd. by cAMP increase) yielded 3 families of I antagonists: xanthines, benzo[g]pteridines, and 9-substituted adenines. For the xanthines, the

optimal group at the 1-position was Bu (5-fold improvement vs. Me), at

the

7-position was 2-chloroethyl (5-fold improvement vs. H), and at the 8-position was p-bromophenyl (100-fold improvement vs. H). The receptors apparently had butyl- and phenyl-sized pockets at the 1- and 8-positions, resp., since compds. with larger groups had greatly reduced activity.

ΤT 3758-26-7

RL: BIOL (Biological study)

(adenosine receptor of fibroblast antagonism by)

3758-26-7 CAPLUS RN

Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 6-ethyl-4-propyl- (7CI, 8CI, CN (CA INDEX NAME) 9CI)

ANSWER 6 OF 11 CAPLUS COPYRIGHT 1999 ACS

ACCESSION NUMBER:

1980:22750 CAPLUS

DOCUMENT NUMBER:

92:22750

DY UI

TITLE:

Studies on heterocyclic compounds. Part XXIX. A one-step synthesis of glycosylaminoisothiazolo[3,4-

d]pyrimidines and glycosylaminoisothiazoles

AUTHOR (S):

Takahashi, Hiroshi; Nimura, Noriyuki; Ogura, Haruo CORPORATE SOURCE:

Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan Chem. Pharm. Bull. (1979), 27(5), 1147-52

CODEN: CPBTAL; ISSN: 0009-2363

SOURCE:

DOCUMENT TYPE:

Journal

LANGUAGE:

English

GI

IV

AΒ The reaction of glycosyl isothiocyanate I with 2-aminopyridine or 2-amino-4-picoline gave N-glycosyl-N'-(2-pyridyl) thiourea and N-qlycosyl-N'-(4-methyl-2-pyridyl) thiourea, resp., in good yields; cyclized products were not obtained. On the other hand, the reaction of glycosyl isothiocyanates I, II, and III with MeC(NH2):CHCO2Et gave MeC(NH2):C(CSNHR)CO2Et (R = glycosyl) and nucleoside analogs IV (R = glycosyl). Similar reaction of I-III with 6-amino-1,3-dimethyluracil gave

Me

nucleoside analogs V.

IT 71399-40-1P

> RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

RN 71399-40-1 CAPLUS

CN Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 2,3-dihydro-4,6-dimethyl-2-[(2,3,4,6-tetra-O-acetyl-.beta.-D-glucopyranosyl)imino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 7 OF 11 CAPLUS COPYRIGHT 1999 ACS L6 ACCESSION NUMBER: 1974:48027 CAPLUS

DOCUMENT NUMBER:

80:48027

TITLE:

Thiazolopyrimidines by reaction of

6-amino-1,3-dimethyluracil with alkyl isothiocyanate

INVENTOR(S):

Berger, Arthur; Borgaes, Edeltraut E.

PATENT ASSIGNEE(S):

Baxter Laboratories, Inc.

U.S., 4 pp.

SOURCE:

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE
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US 3772290	A	19731113	US 1971-200208 19711118
US 3660405	Α	19720502	US 1969-849899 19690813
GB 1285268	А	19720816	GB 1970-1285268 19700729
US 3745217	Α	19730710	US 1971-200209 19711118
US 3769287	Α	19731030	US 1971-200207 19711118
PRIORITY APPLN.	INFO.:		US 1969-849899 19690413

GΙ For diagram(s), see printed CA Issue.

AΒ Thiazolopyrimidines I (R = Me, Et, Pr, Bu, allyl) were prepd. by cyclizing

6-amino-1,3-dimethyluracil with RNCS or by cyclizing the corresponding pyrimidinylthiourea with Br or H2O2. I had a barbiturate antagonist ED50 of 7.2-49 mg/kg i.p. in mice at LD50/ED50 ratios of 2.95-73.6.

IT 31894-92-5P 31894-93-6P 31895-48-4P

31895-49-5P 31895-50-8P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

RN 31894-92-5 CAPLUS

CN Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 4,6-dimethyl-2-(propylamino)-(CA INDEX NAME)

RN 31894-93-6 CAPLUS

Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 4,6-dimethyl-2-(methylamino)-CN (9CI) (CA INDEX NAME)

31895-48-4 CAPLUS RN

Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 2-(ethylamino)-4,6-dimethyl-CN (CA INDEX NAME)

RN 31895-49-5 CAPLUS

CN Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 4,6-dimethyl-2-(2-propenylamino)- (9CI) (CA INDEX NAME)

Me
$$NH-CH_2-CH=CH_2$$
 $NH-CH_2-CH=CH_2$ 
 $NH-CH_2-CH=CH_2$ 

RN 31895-50-8 CAPLUS

CN Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 2-(butylamino)-4,6-dimethyl-(9CI) (CA INDEX NAME)

L6 ANSWER 8 OF 11 CAPLUS COPYRIGHT 1999 ACS

ACCESSION NUMBER:

1974:37148 CAPLUS

DOCUMENT NUMBER:

80:37148

TITLE:

Fungicidal thiazolo[4,5-d]pyrimidines

INVENTOR(S):

Grohe, Klaus

PATENT ASSIGNEE(S):

Bayer A.-G.

SOURCE:

Ger. Offen., 12 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
		<del>-</del>		
DE 2223421	A1	19731122	DE 1972-2223421	19720513

GI For diagram(s), see printed CA Issue.

AB Four thiazolopyrimidines I (R = CH2Ph or H; R1 = Me, Pr, or CH2-CN2Ph) were prepd. in 54-86% yield by reaction of the aminouracil II with ClCoSCl

in PhCl with subsequent heating. I (R = H, R1 = Me) had fungicidal activity in rice cultures.

IT 49679-82-5P 49679-83-6P 49679-84-7P

RN 49679-82-5 CAPLUS CN Thiazolo[4,5-d]pyrimidine-2,5,7(3H,4H,6H)-trione, 4,6-dimethyl- (9CI) (CA INDEX NAME)

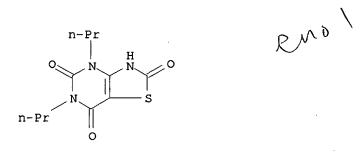
Me H O N S

RN 49679-83-6 CAPLUS

CN Thiazolo[4,5-d]pyrimidine-2,5,7(3H,4H,6H)-trione, 4,6-dipropyl- (9CI)

(CA

INDEX NAME)



RN 49679-84-7 CAPLUS

CN Thiazolo[4,5-d]pyrimidine-2,5,7(3H,4H,6H)-trione, 4,6-bis(2-phenylethyl)-(9CI) (CA INDEX NAME)

$$\begin{array}{c|c} Ph-CH_2-CH_2 \\ \hline O & N & H \\ \hline N & N & S \\ \hline Ph-CH_2-CH_2 & O \\ \hline \end{array}$$

L6 ANSWER 9 OF 11 CAPLUS COPYRIGHT 1999 ACS

ACCESSION NUMBER:

1973:478673 CAPLUS

DOCUMENT NUMBER:

79:78673

TITLE:

Cycloacylation of enamines. I. Synthesis of

2-thiazolone derivatives

AUTHOR(S):

SOURCE:

Grohe, Klaus; Heitzer, Helmut

CORPORATE SOURCE:

Wiss. Hauptlab., Bayer A.-G., Leverkusen, Ger.

Justus Liebigs Ann. Chem. (1973), (5-6), 1018-24

CODEN: JLACBF

DOCUMENT TYPE:

Journal

LANGUAGE:

German

GI For diagram(s), see printed CA Issue.

AB Cycloacylation of the enamines RNHCR2:CHCO2R1, RO2CCH:CMeNHZNHCMe:CHCO2R, MeNHCMe:CHCONHR, RNHCMe:CHCN, and 4-02NC6H4CH:C(NH2)C6H4NO2-4 with

clcoscl

gave the thiazolones I (R = H, Me, Ph, CH2Ph; R1 = C1-12 alkyl, cyclohexyl, PhCH2, or PhCH2CH2; R2 = Me, CCl3, or CO2Et), II (R = Me or Et, Z = CH2CH2 or p-C6H4), III [R = Ph or 4,3,6-Cl(MeO)2C6H2], IV (R = H,

RN 49679-83-6 CAPLUS
CN Thiazolo[4,5-d]pyrimidine-2,5,7(3H,4H,6H)-trione, 4,6-dipropyl- (9CI)
(CA INDEX NAME)

$$\begin{array}{c|c}
 & & & H \\
 & & & H \\
 & & & N \\
 & & & N \\
 & & & N
\end{array}$$

RN 49679-84-7 CAPLUS
CN Thiazolo[4,5-d]pyrimidine-2,5,7(3H,4H,6H)-trione, 4,6-bis(2-phenylethyl)(9CI) (CA INDEX NAME)

L6 ANSWER 10 OF 11 CAPLUS COPYRIGHT 1999 ACS

ACCESSION NUMBER:

1970:12658 CAPLUS

DOCUMENT NUMBER:

72:12658

TITLE:

Reactions of 6-amino-1,3-dimethyluracils with thionyl chloride. I. Novel thiazole synthesis.

4,5,6,7-Tetrahydrothiazolo[4,5-d]pyrimidine-5,7-diones

AUTHOR(S):

Goldman, Irving M.

CORPORATE SOURCE:

Med. Res. Lab., Chas. Pfizer and Co., Inc., Groton,

Conn., USA

J. Org. Chem. (1969), 34(11), 3285-9

CODEN: JOCEAH

DOCUMENT TYPE:

Journal

LANGUAGE:

English

For diagram(s), see printed CA Issue.

6-Amino-1,3-dimethyluracils (I, R = H, CO2H, CO2Et, Ph, and CF3) undergo AB facile conversion to the corresponding thiazolopyrimidines (II) upon treatment with SOC12-pyridine, except for I (R = CF3), where SOC12 is

more

effective in absence of pyridine. II (R = H, CO2H and CO2Et) were reported previously by Schroeder (1964). The reaction is presumed to proceed via dehydration of the intermediate thiazoline S-oxides. A different reaction is observed when an inferior grade of SOC12 is use d

in

the absence of pyridine, resulting in the formation of sulfides and p roducts derived therefrom. Speculation is offered on the mechanism of thiazole formation from suitably substituted 6-aminouracils.

IT 1781-18-6P 3764-04-3P 21544-68-3P

21544-69-4P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

1781-18-6 CAPLUS RN

Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 4,6-dimethyl- (7CI, 8CI, 9CI) CN (CA INDEX NAME)

RN 3764-04-3 CAPLUS

Thiazolo[4,5-d]pyrimidine-2-carboxylic acid, 4,5,6,7-tetrahydro-4,6-CN dimethyl-5,7-dioxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

RN 21544-68-3 CAPLUS

Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 4,6-dimethyl-2-phenyl- (8CI, CN (CA INDEX NAME)

L6 ANSWER 11 OF 11 CAPLUS COPYRIGHT 1999 ACS

ACCESSION NUMBER: 1968:436067 CAPLUS

DOCUMENT NUMBER: 69:36067

TITLE: Thiazolo-N-hydroxyuracils

AUTHOR(S): Bauer, Ludwig; Mahajanshetti, C. S.

CORPORATE SOURCE: Med. Center, Univ. of Illinois, Chicago, Ill., USA

SOURCE: J. Heterocycl. Chem. (1968), 5(3), 331-5

CODEN: JHTCAD

DOCUMENT TYPE: Journal LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB The partial Lossen degradation of the hydroxamic acid group at C-4 of C-5 of Na 4,5-thiazoledicarbohydroxamate and its 2-Me analog initiated a multicoursed reaction which furnished a mixt. of thiazolo[4,5-d]- (I) and thiazolo[5,4-d]-N-hydroxyuracils (II). The isomer distribution was sensitive to the solvent systems in which these reactions were carried out. The structure of the isomers so obtained was established by chem. and spectral methods.

IT 18903-27-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 18903-27-0 CAPLUS

CN Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 2,4,6-trimethyl- (8CI) (CA INDEX NAME)

L1 L2	FILE	'REGISTRY' ENTERED AT 10:25:07 ON 21 SEP 1999 STRUCTURE UPLOADED 1 S L1
L3 L4 L5	FILE	'REGISTRY' ENTERED AT 10:40:51 ON 21 SEP 1999 STRUCTURE UPLOADED · 1 S L3 27 S L3 FULL SSS
L6	FILE	'CAPLUS' ENTERED AT 10:41:48 ON 21 SEP 1999 11 S L5
	FILE	'STNGUIDE' ENTERED AT 10:42:56 ON 21 SEP 1999
	FILE	'CAOLD' ENTERED AT 10:49:54 ON 21 SEP 1999

=> s 15

L7 4 L5

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09/313048 Page 1

L7 ANSWER 1 OF 4 CAOLD COPYRIGHT 1999 ACS

ACCESSION NUMBER: CA62:4036e CAOLD

TITLE: 4,6-dialkyl-5,7-dioxothiazolo[4,5-d]pyrimidine-2-carboxylic

acid and derivs.

AUTHOR NAME: Schroeder, Elmer F.

DOCUMENT TYPE: Patent

TITLE: 4,6-dialkyl-5,7-dioxothiazolo[4,5-d]pyrimidine-2-carboxylic

acid and derivs.

PATENT ASSIGNEE: Searle, G. D., & Co.

DOCUMENT TYPE: Patent

IT 1781-10-8 1781-18-6 1781-19-7 1781-20-0 1781-21-1 3758-26-7 3758-28-9 3764-04-3 3764-09-8

RN 1781-10-8 CAOLD

CN Thiazolo[4,5-d]pyrimidine-2-carboxamide, 6-ethyl-4,5,6,7-tetrahydro-5,7-dioxo-4-propyl- (7CI, 8CI) (CA INDEX NAME)

$$\begin{array}{c|c}
 & \text{N-Pr} & \text{O} \\
 & \text{N} & \text{N} & \text{C-NH}_2 \\
 & \text{Et} & \text{O}
\end{array}$$

RN 1781-18-6 CAOLD

CN Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 4,6-dimethyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

RN 1781-19-7 CAOLD

CN Thiazolo[4,5-d]pyrimidine-2-carboxylic acid, 4,5,6,7-tetrahydro-4,6-dimethyl-5,7-dioxo- (7CI, 8CI) (CA INDEX NAME)

RN 1781-20-0 CAOLD

CN Thiazolo[4,5-d]pyrimidine-2-carboxylic acid, 6-ethyl-4,5,6,7-tetrahydro-5,7-dioxo-4-propyl- (7CI, 8CI) (CA INDEX NAME)

RN 1781-21-1 CAOLD

CN Thiazolo[4,5-d]pyrimidine-2-carboxylic acid, 6-ethyl-4,5,6,7-tetrahydro-5,7-dioxo-4-propyl-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

RN 3758-26-7 CAOLD

CN Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 6-ethyl-4-propyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

RN 3758-28-9 CAOLD

CN Thiazolo[4,5-d]pyrimidine-2-carboxamide, 6-ethyl-4,5,6,7-tetrahydro-N,N-dimethyl-5,7-dioxo-4-propyl- (7CI, 8CI) (CA INDEX NAME)

RN 3764-04-3 CAOLD

CN Thiazolo[4,5-d]pyrimidine-2-carboxylic acid, 4,5,6,7-tetrahydro-4,6-dimethyl-5,7-dioxo-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

RN 3764-09-8 CAOLD

CN Thiazolo[4,5-d]pyrimidine-2-carboxamide, 6-ethyl-4,5,6,7-tetrahydro-N-(2-hydroxyethyl)-5,7-dioxo-4-propyl- (7CI, 8CI) (CA INDEX NAME)

L7 ANSWER 2 OF 4 CAOLD COPYRIGHT 1999 ACS

ACCESSION NUMBER: CA62:4035h CAOLD

TITLE: phenothiazine derivs.

AUTHOR NAME: Boissier, Jacques R.; Malen, C.

DOCUMENT TYPE: Patent

TITLE: phenothiazine derivs.

PATENT ASSIGNEE: Societe Industrielle pour la Fabrication des Antibiotiques

(S.I.F.A.)

DOCUMENT TYPE: Patent

IT 1781-11-9

RN 1781-11-9 CAOLD

CN Thiazolo[4,5-d]pyrimidine-2-carboxamide, 6-ethyl-4,5,6,7-tetrahydro-N-methyl-5,7-dioxo-4-propyl- (8CI) (CA INDEX NAME)

L7 ANSWER 3 OF 4 CAOLD COPYRIGHT 1999 ACS

ACCESSION NUMBER: CA57:8576a CAOLD

TITLE: bicyclic, cyclic, and acyclic azo compds.-2,3-

diazabicyclo[2.2.2]-2-octene, 3,6-dimethyl-.DELTA.1-

tetrahydropyridazine and azoisopropane

AUTHOR NAME: Cohen, Saul G.; Zand, R.

IT 3758-26-7

RN 3758-26-7 CAOLD

CN Thiazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 6-ethyl-4-propyl- (7CI, 8CI,

9CI) (CA INDEX NAME)

L7 ANSWER 4 OF 4 CAOLD COPYRIGHT 1999 ACS

ACCESSION NUMBER: CA57:8574c CAOLD

TITLE: rearrangement of sulfoxides of pyrimido [5,4-

b][1,4]thiazines

AUTHOR NAME: Schroeder, Elmer F.; Dodson, R. M.

IT 1781-10-8 1781-20-0 1781-21-1 3758-28-9 3764-09-8 95389-27-8

RN 1781-10-8 CAOLD

CN Thiazolo[4,5-d]pyrimidine-2-carboxamide, 6-ethyl-4,5,6,7-tetrahydro-5,7-

dioxo-4-propyl- (7CI, 8CI) (CA INDEX NAME)

RN 1781-20-0 CAOLD

CN Thiazolo[4,5-d]pyrimidine-2-carboxylic acid, 6-ethyl-4,5,6,7-tetrahydro-5,7-dioxo-4-propyl- (7CI, 8CI) (CA INDEX NAME)

RN 1781-21-1 CAOLD

CN Thiazolo[4,5-d]pyrimidine-2-carboxylic acid, 6-ethyl-4,5,6,7-tetrahydro-5,7-dioxo-4-propyl-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

RN 3758-28-9 CAOLD

CN Thiazolo[4,5-d]pyrimidine-2-carboxamide, 6-ethyl-4,5,6,7-tetrahydro-N,N-dimethyl-5,7-dioxo-4-propyl- (7CI, 8CI) (CA INDEX NAME)

RN 3764-09-8 CAOLD

CN Thiazolo[4,5-d]pyrimidine-2-carboxamide, 6-ethyl-4,5,6,7-tetrahydro-N-(2-hydroxyethyl)-5,7-dioxo-4-propyl- (7CI, 8CI) (CA INDEX NAME)

$$\begin{array}{c|c}
 & \text{N-Pr} & \text{O} \\
 & \text{O} & \text{N} \\
 & \text{N-C-NH-CH}_2 - \text{CH}_2 - \text{OH} \\
 & \text{Et} & \text{O}
\end{array}$$

RN 95389-27-8 CAOLD

CN Thiazolo[4,5-d]pyrimidine-2-carboxylic acid, 6-ethyl-4,5,6,7-tetrahydro-5,7-dioxo-4-propyl-, hydrate (7CI) (CA INDEX NAME)

$$\begin{array}{c|c}
 & n-Pr \\
 & N \\
 & N \\
 & S \\
 & CO_2H \\
 & C$$

H20